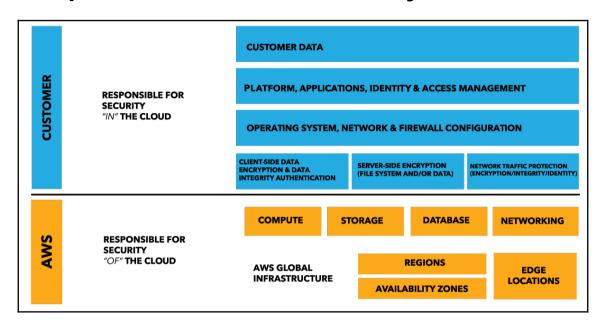
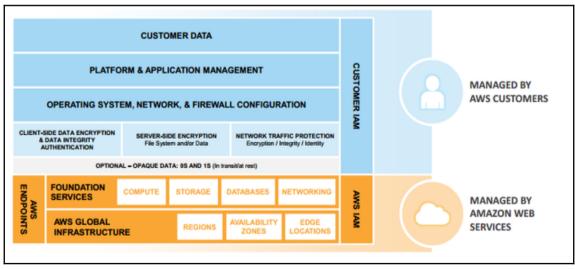
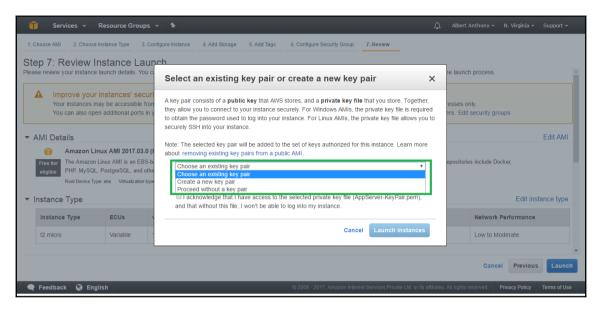
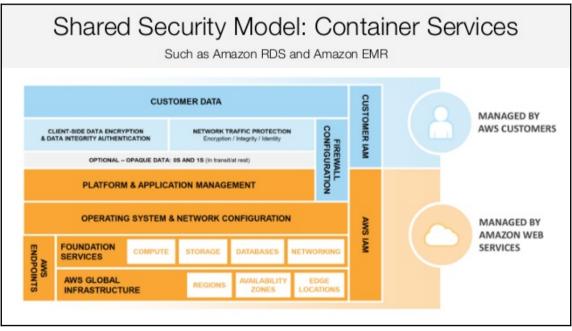
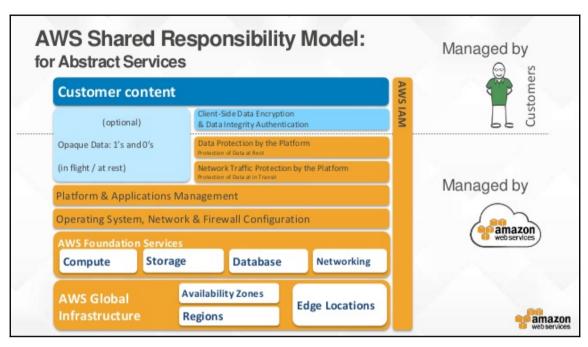
Chapter 1: Overview of Security in AWS



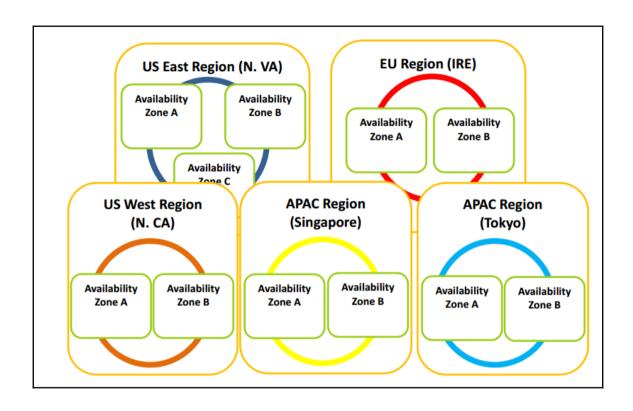


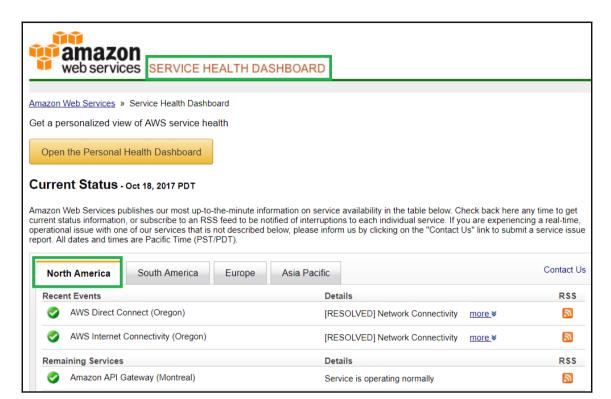




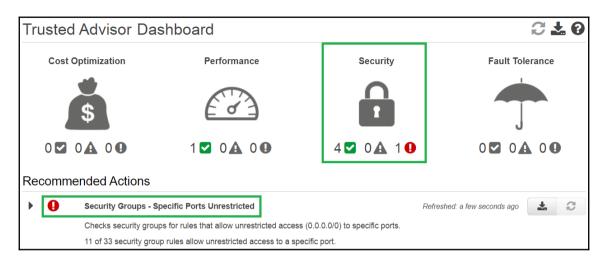


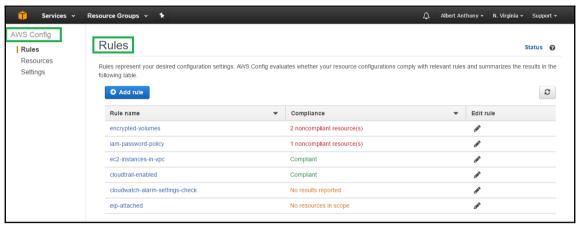




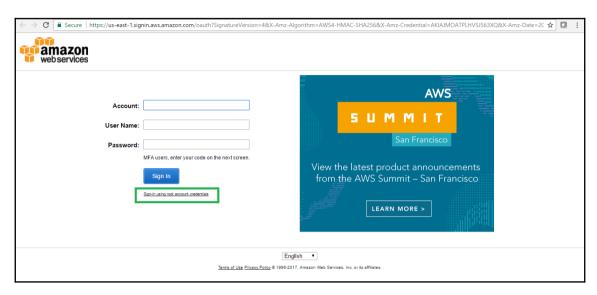


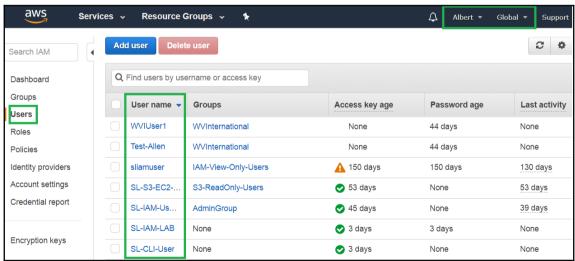


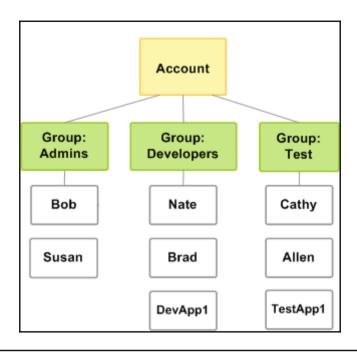


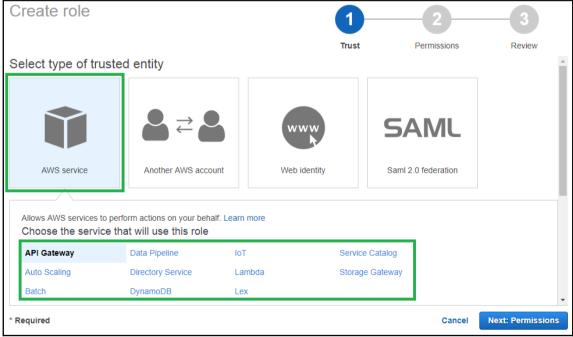


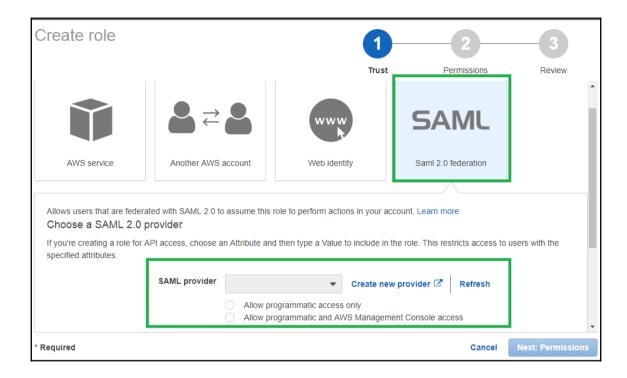
Chapter 2: AWS Identity and Access Management

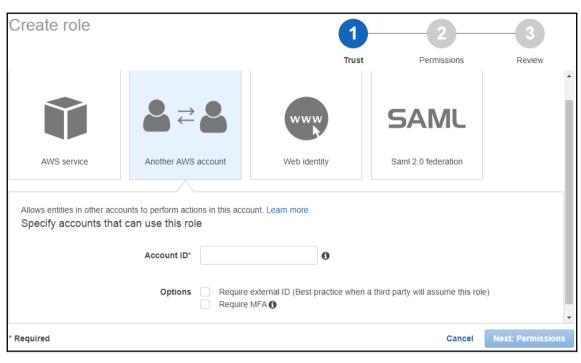


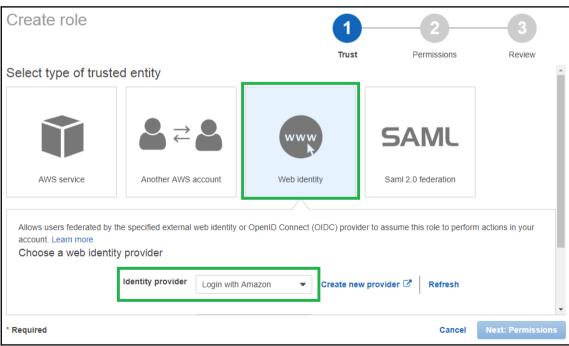






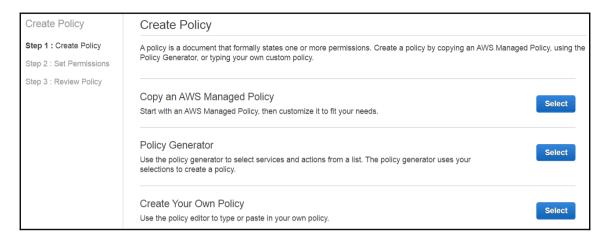


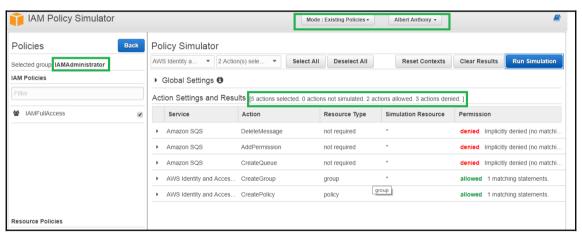


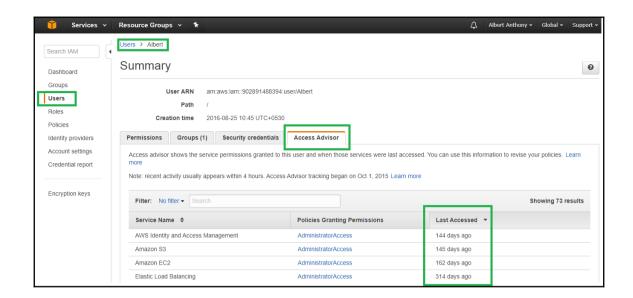


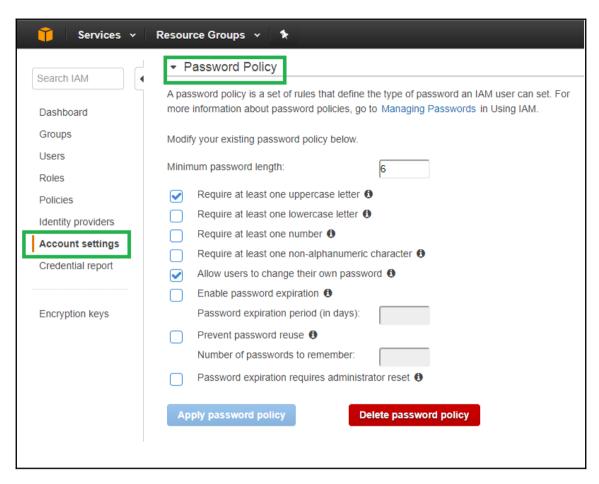


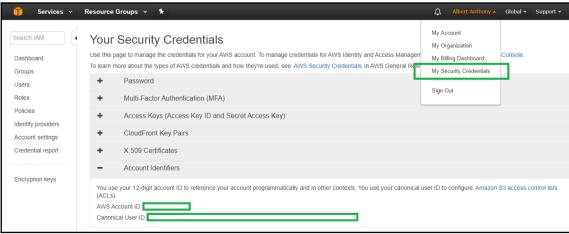


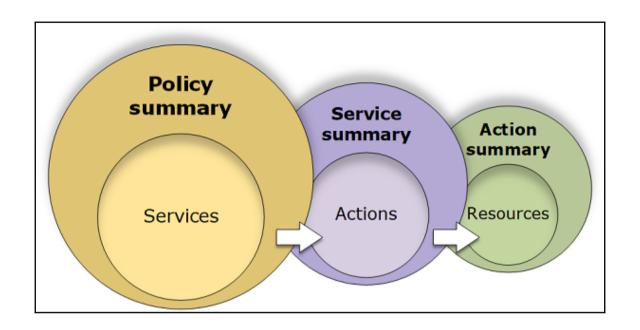




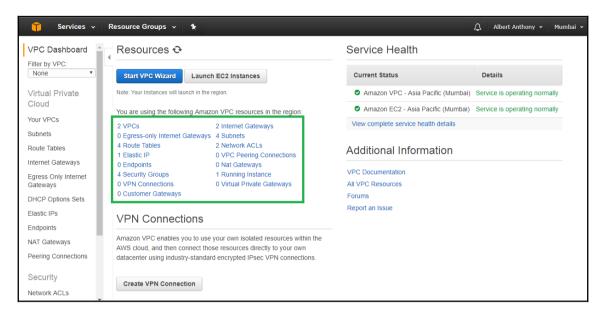


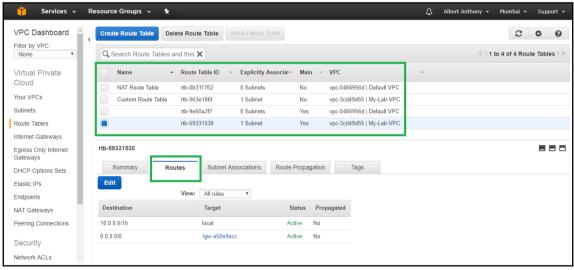


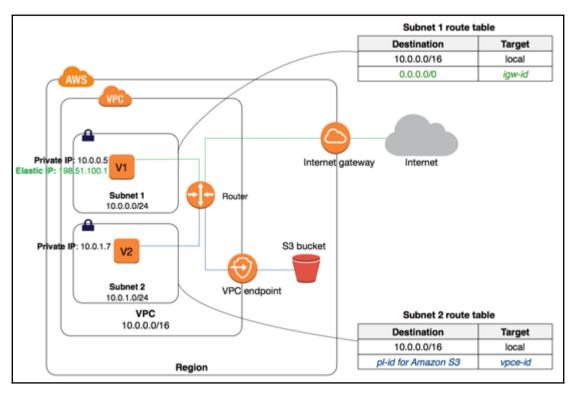


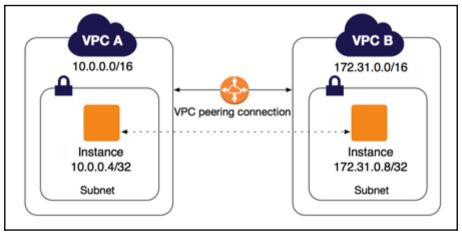


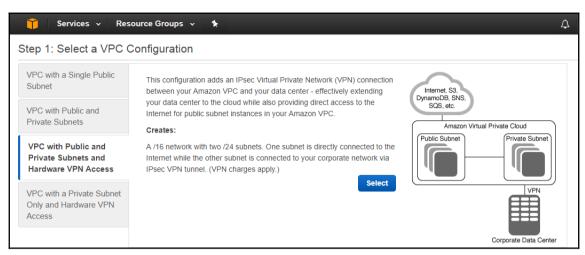
Chapter 3: AWS Virtual Private Cloud

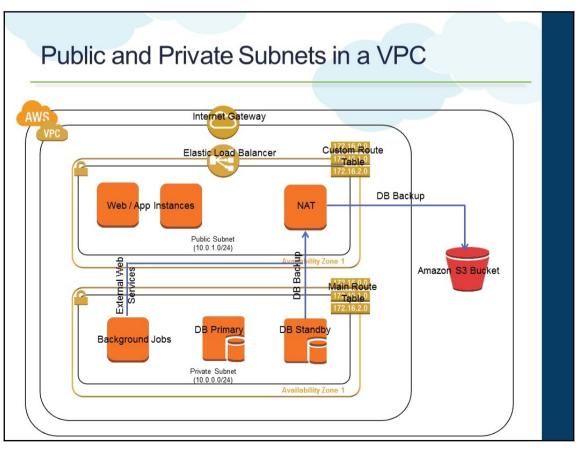


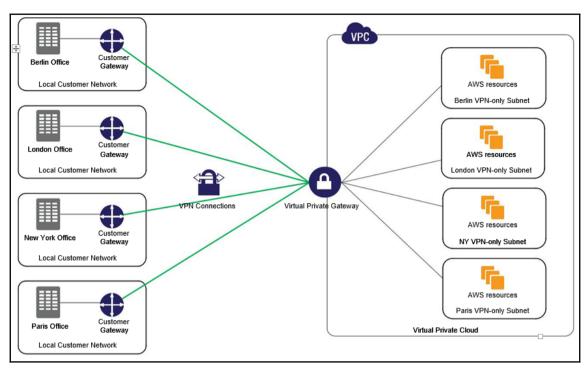


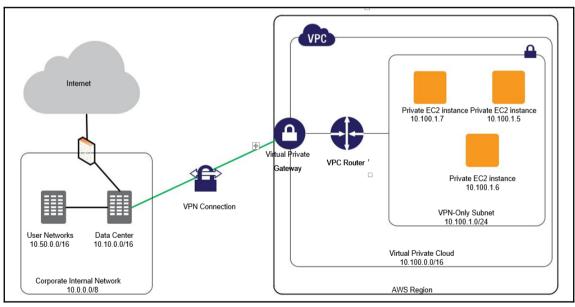


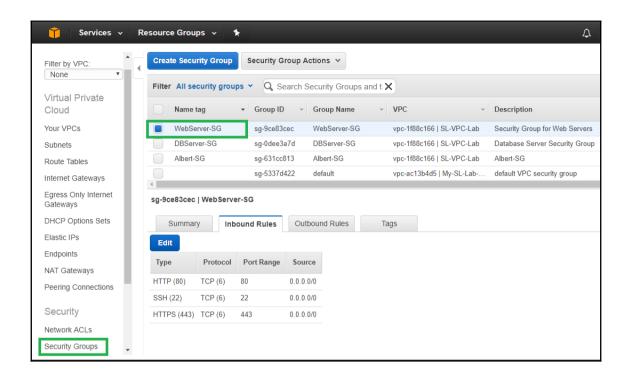


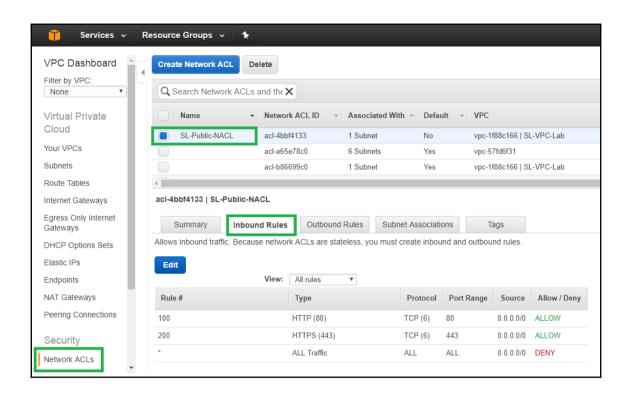


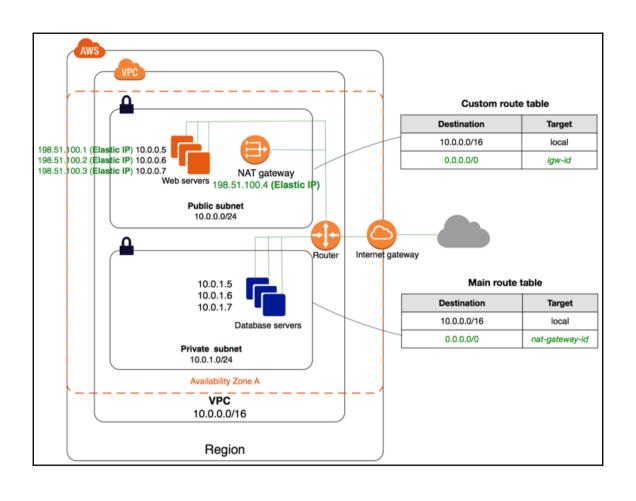


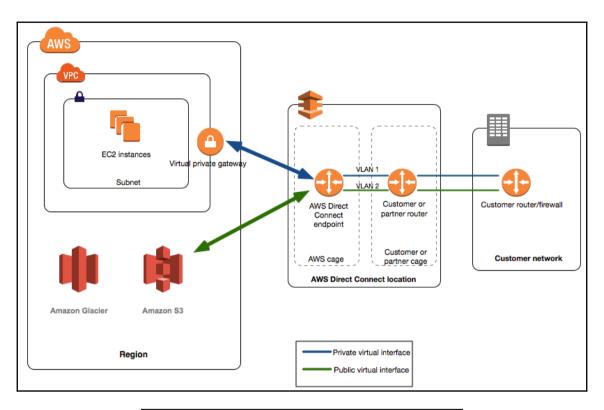


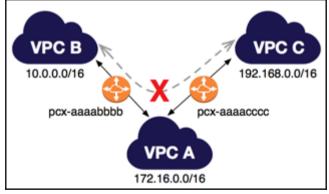




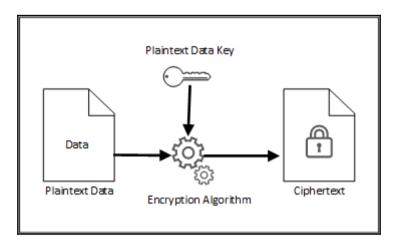


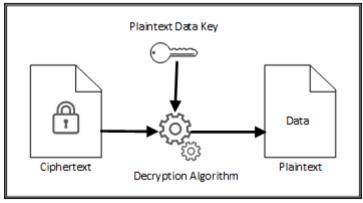


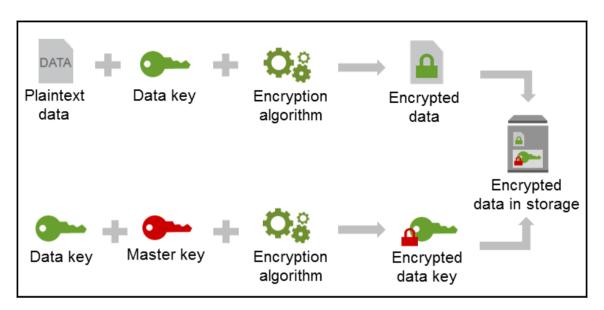


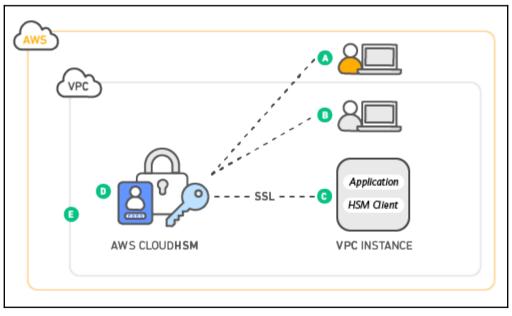


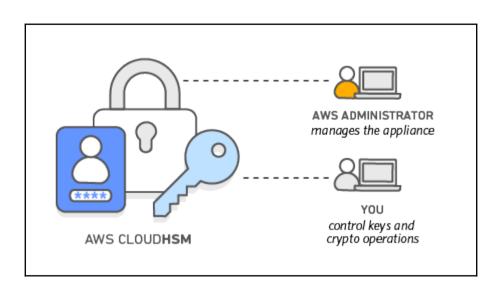
Chapter 4: Data Security in AWS



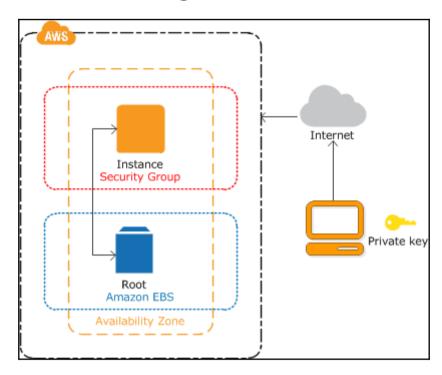


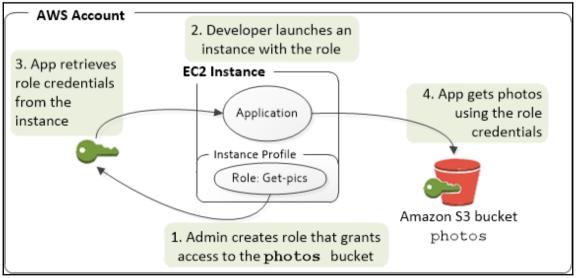


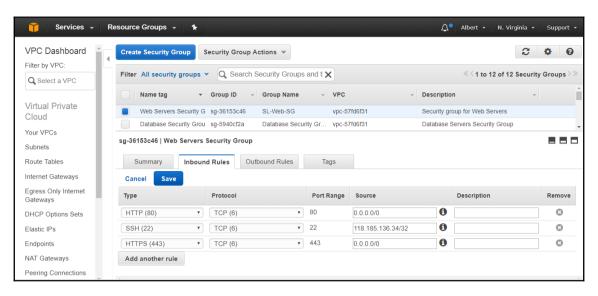


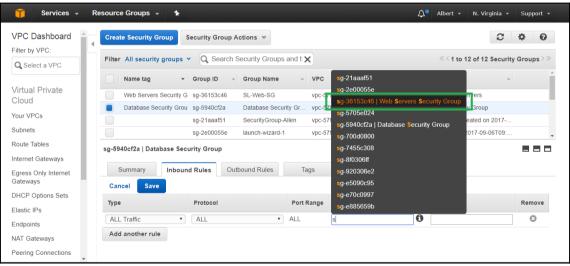


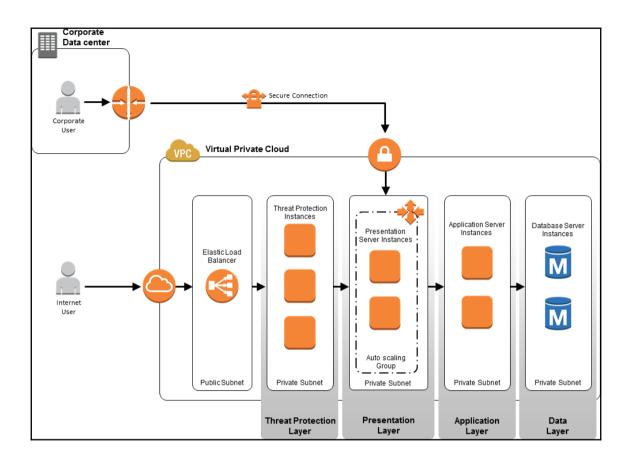
Chapter 5: Securing Servers in AWS



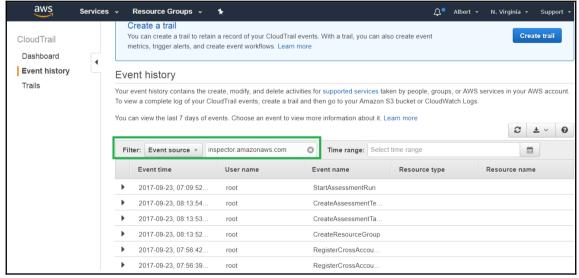


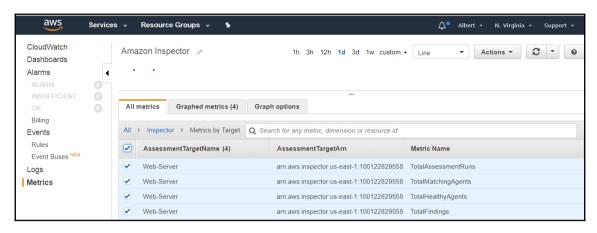


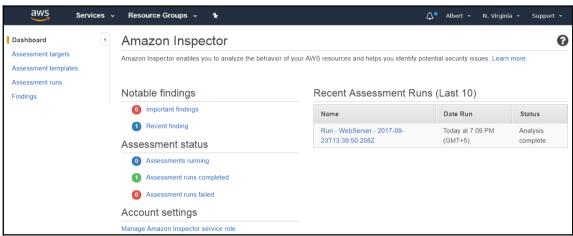


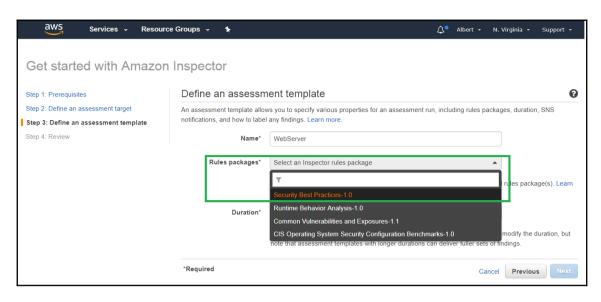


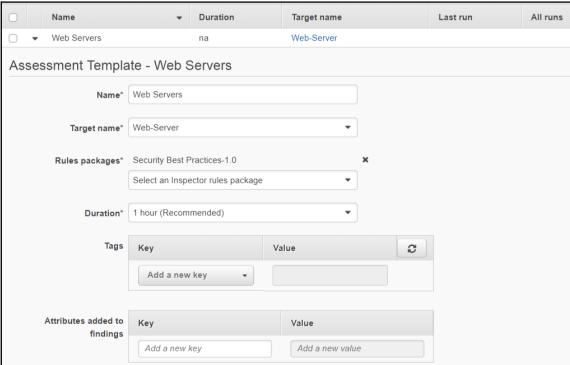












AWS Shield

Standard Protection



Available to ALL AWS customers at No Additional Cost

Advanced Protection



Paid service that provides additional, comprehensive protections from large and sophisticated attacks

Chapter 6: Securing Applications in AWS



Web traffic filtering with custom rules

Create custom rules that can allow, block, or count web requests based on originating IP addresses or strings that appear



Block malicious requests

Configure AWS WAF to recognize and block common web application security risks like SQL injection (SQLi) and cross-site scripting (XSS).



Tune your rules and monitor traffic

Review details about the web requests that AWS WAF allows, blocks, or counts, and update rules to thwart new attacks.

IP match condition example

Suspicious IPs

192.0.2.0/24

192.51.100.0/24

2001:db8:a0b:12f0:ac34:1:1:1/128

2001:db8:a0b:12f0:0:0:0:0/64

Rules example Bad User-Agents IP match condition Suspicious IPs and String match condition Bad bots



Web ACL

Combines rules with an OR

- · Checks rules in order listed
- Specifies action if rule is met
- · Specifies default action if no rule is met

Rate-based rule

(combines conditions with an AND and adds a rate limit)



Condition

Example: Cross-site scripting threat



AND

Condition

Example: Specific IP addresses



AND

Rate limit: 15,000

If rule is met: do this action (Example: block)

Rule

(combines conditions with an AND)



Condition

Example: SQL injection threat



AND

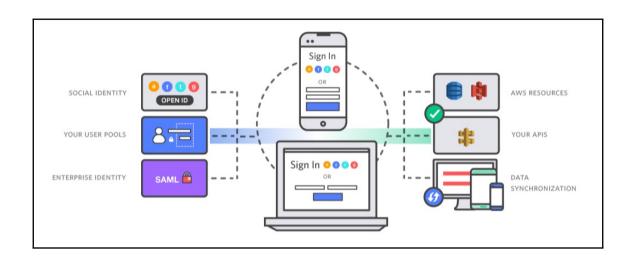
Condition

Example: Specific string in header

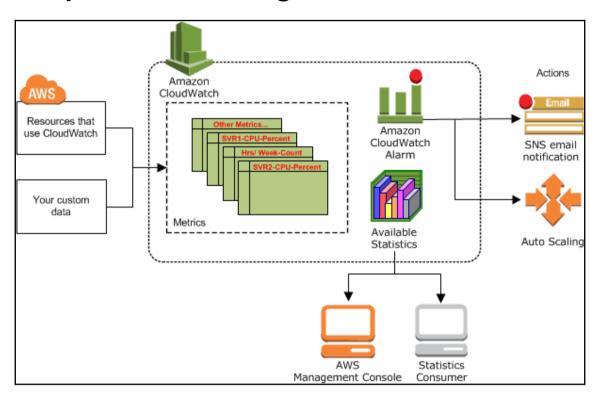
If rule is met: do this action (Example: count)

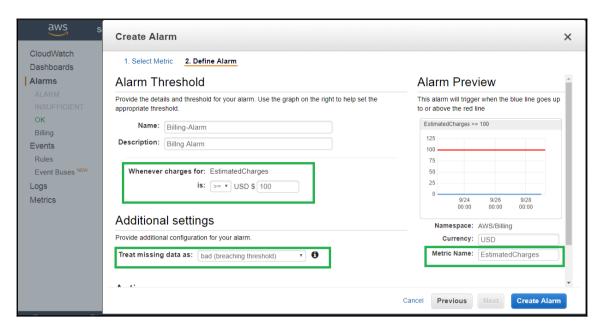
If no rules match, perform default action (Example: allow)

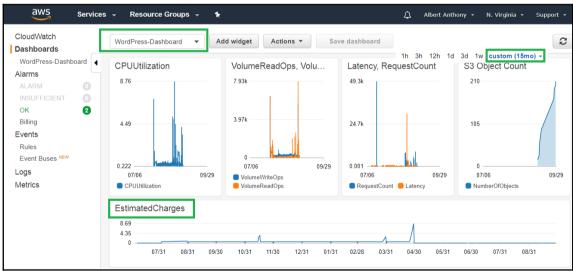
OR

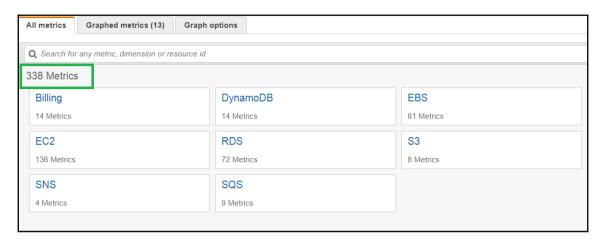


Chapter 7: Monitoring in AWS









All m	Graphed metrics (9)	Graph options	S					
	Label	Namespace	Dimensions	Metric Name	Statistic 🗹	Period ▼	Y Axis	Actions 🗹
	AmazonCloudWatch	AWS/Billing	Dimensions (2)	EstimatedCharges	Maximum	6 Hours	< >	A 2 8
	AmazonEC2	AWS/Billing	Dimensions (2)	EstimatedCharges	Maximum	6 Hours	< >	A 2 8
	AmazonRDS	AWS/Billing	Dimensions (2)	EstimatedCharges	Maximum	6 Hours	< >	A 2 8
	AmazonS3	AWS/Billing	Dimensions (2)	EstimatedCharges	Maximum	6 Hours	< >	△ 4 8
	AmazonSNS	AWS/Billing	Dimensions (2)	EstimatedCharges	Maximum	6 Hours	< >	△ 4 8
	AWSDataTransfer	AWS/Billing	Dimensions (2)	EstimatedCharges	Maximum	6 Hours	< >	A 2 8
	awskms	AWS/Billing	Dimensions (2)	EstimatedCharges	Maximum	6 Hours	< >	△ 4 8

×

Select a widget type to configure and add to this dashboard.



LineCompare metrics over time



Stacked area
Compare the total over time



Number Instantly see the latest value for a metric



TextFree text with markdown formatting

Cancel

Configure





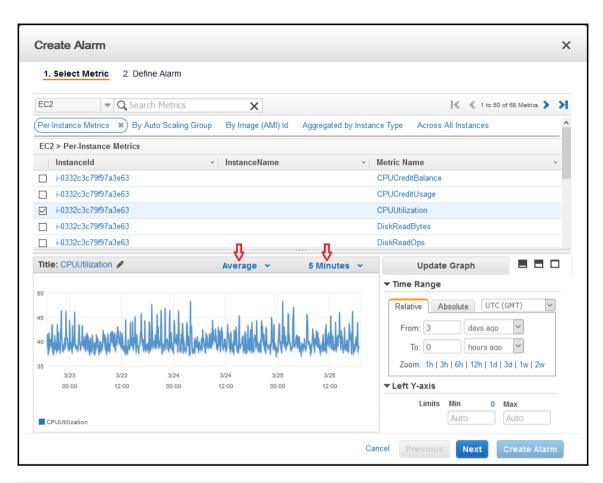
Determine events of interest in the CloudWatch Events stream



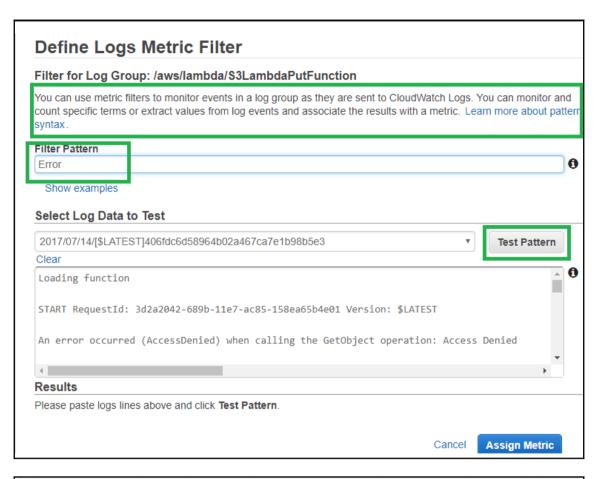
Create rules to select events of interest

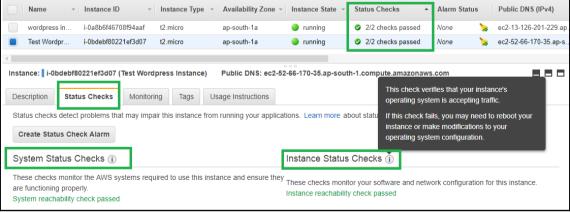


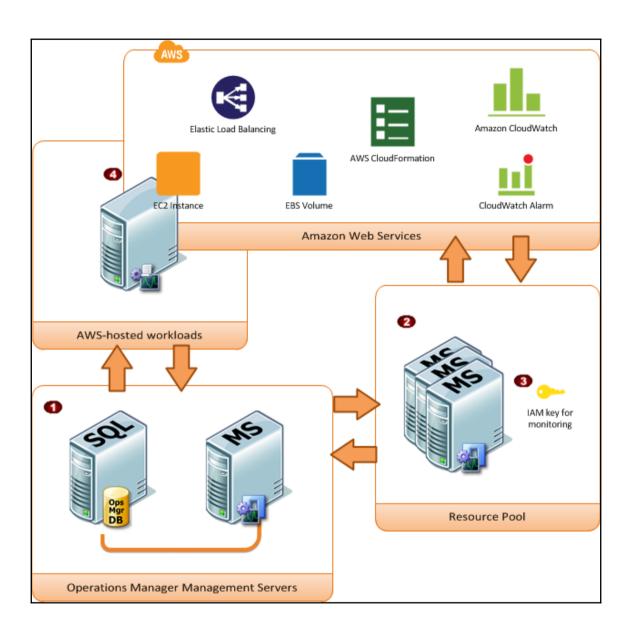
Specify actions to take when a rule matches an event



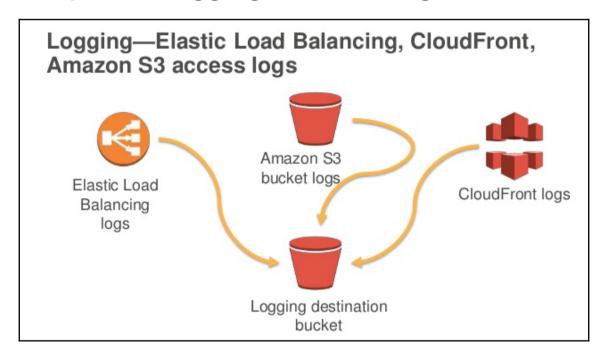


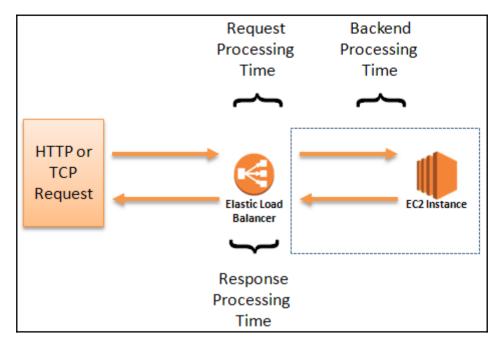


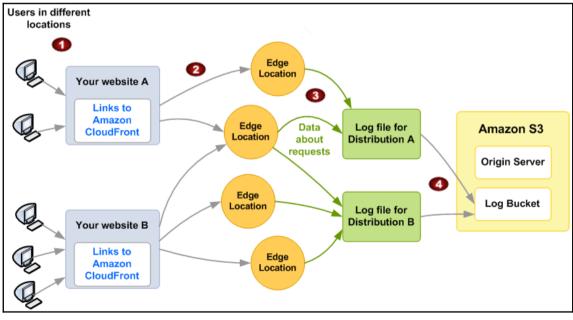


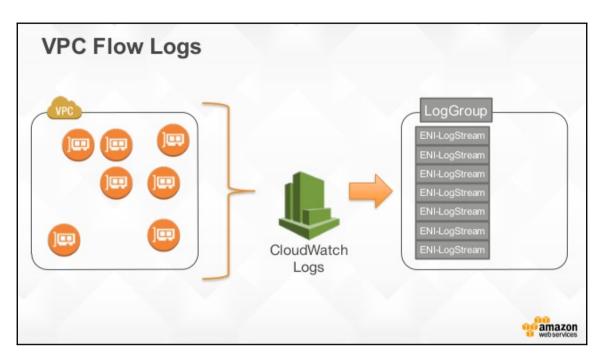


Chapter 8: Logging and Auditing in AWS



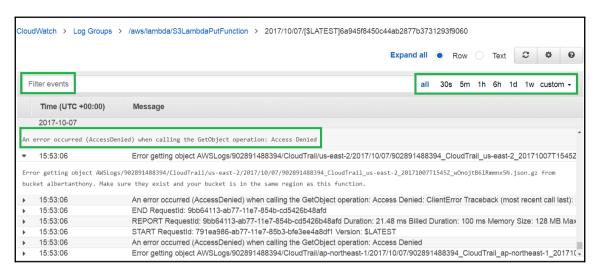


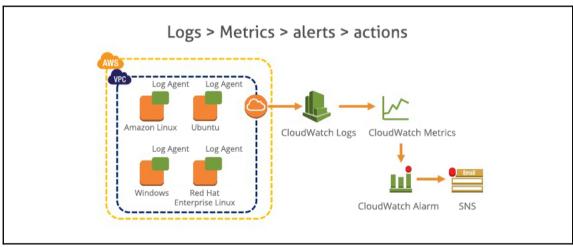


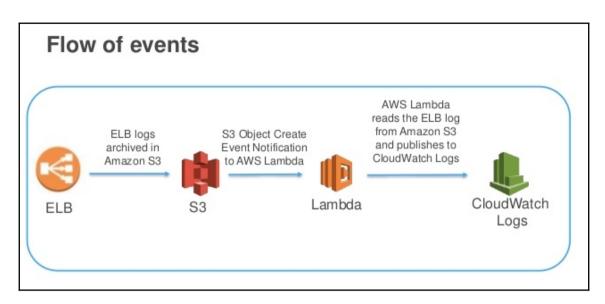


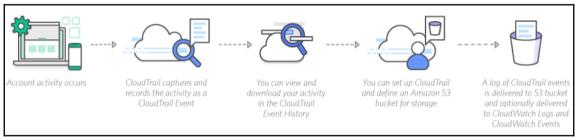




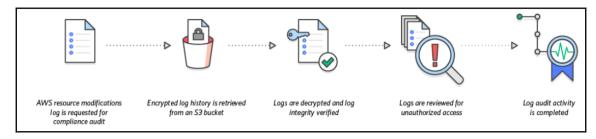


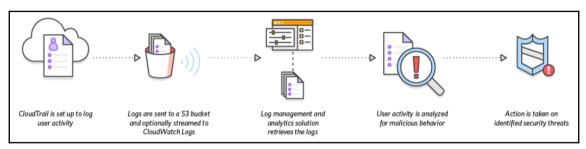


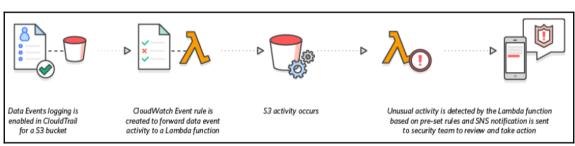


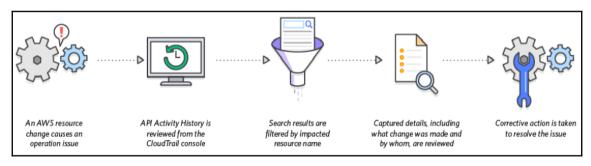


	Event time	User name	Event name	Resource type			
•	2017-10-08, 08:56:01	root	ConsoleLogin	ConsoleLogin			
•	2017-10-08, 04:31:42	S3LambdaPutFunction	CreateLogStream				
	AWS access key ASIAJRGS	SLRIJL2TUS5SQ	Event soul	rce logs.amazonaws.com			
AWS region ap-south-1			Event ti	me 2017-10-08, 04:31:42 PM			
Error code			Request	11232d98-ac18-11e7-bdb0-d356217574b0			
Event ID 9c7d0d4e-cfb5-4bac-b5bb-6b108f6720a8			8 Source IP address 52.66.68.156				
Event name CreateLogStream			User na	me S3LambdaPutFunction			
Re	Resources Referenced (0)						









Key AWS Certifications and Assurance Programs





























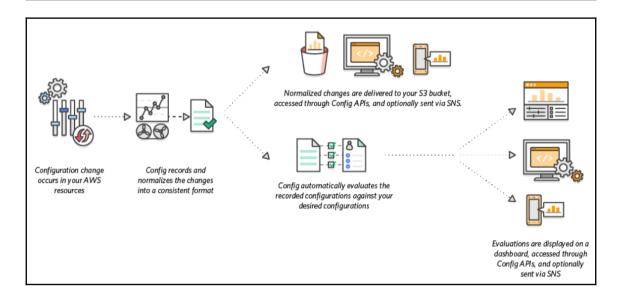








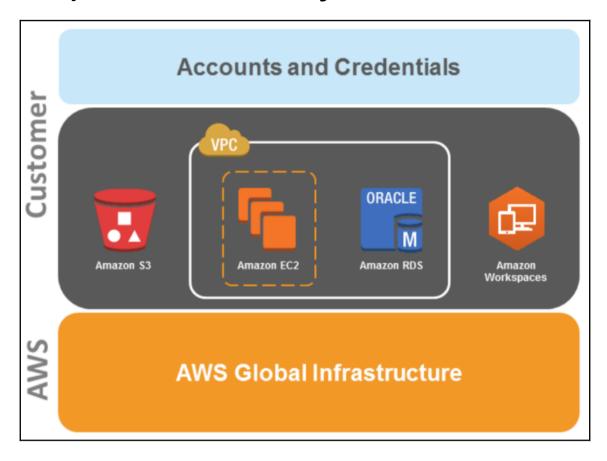








Chapter 9: AWS Security Best Practices



Security Status	5 out of 5 complete.
☑ Delete your root access keys	~
Activate MFA on your root account	~
Create individual IAM users	~
✓ Use groups to assign permissions	~
Apply an IAM password policy	~



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